

Zhur Eksper i Teoret Fiz Vol 18 No 7 651-8 1948

Likhter, Ya. I. and Khakin, S. E.

The effect of rapid changes in temperature and pressure on the electrical resistance of an electrolyte.

Avail at BNL AEC tr 469 29 June 1951

Frenkel', Ya. I.
 THE RUNNING OF DROPS DOWN AN INCLINED
 SURFACE (O Povedenii Zhidkikh Kapel na Poverkhnosti
 Tverdogo Tela. 1. Skatyvaniye Kapel s Nakleannoy
 Poverkhnosti). Pt. II On the Behaviour of Liquid Drops
 on the Surface of a Solid. Apr 61 [18]p RTS 1777.
 Order from OTS or SLA \$1.60 (1-19690)

Trans. of Zhurnal Eksperimental'noy i Teoreticheskoy
 Fiziki (USSR) 1948, v. 18, no. 7, p. 659-667.

DESCRIPTORS: Solids, Surfaces, Surface tension,
 *Drops, Motion

An examination is made of the variation of contact
 angles caused by the inclination of a solid surface on
 which a drop of liquid rests, as well as of the limiting
 value of the angle of inclination at which the drop begins
 to run down. It was found that the running down of a
 drop consists in the pouring forward of the liquid of
 which the drop is composed and in a simultaneous sep-
 (Physics - Theoretical. TT v. 6, no. 3) (over)

61-19690

- I. Frenkel', Ya. I.
- II. Title: On...
- III. RTS-1777
- IV. Department of Scientific
 and Industrial Research
 (Gr. Brit.)

17520

Office of Technical Services

ZHUR EKSPER I TEORET FIZ Vol XVIII, No 8, 9 pp, Aug 48

"The Theory of Energy Transmissions Through Collisions. III

L. Landau
Ye. Lifshits

AEC tr 109

9/49T80

13 201

Ca-1

ALIKHAN'YAN A., ALIKHANOV A., MOROZOV V.,
MUSKHELISHVILI G., KHRIM'YAN A.

The mass spectrum of varitrons

Zhur. Eksptl'. i Teoret. Fiz., 18, No. 8, 673-702 (1948)

TT 101 - English

E u r a t o m

General Lorentz Invariant Equations and Infinite-Dimensional Representations of the Lorentz Group, by I. M. Gel'fand, A. N. Yaglom.

Full translation.

RUSSIAN, bio per, Zhur Eksper i Teoret Fiz, Vol XVIII, No 8, 1948, pp 703-733.

ABC Tr 1627

Scientific - Physics

Aug 53 CIB

4821

Pomeranchuk, I.
FLUCTUATIONS OF IONIZATION RANGES (PAH
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Order from LC for SLA ref \$2.40, ph \$3.30 61-15284

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(Physics--Theoretical, IT, v. 5, no. 11)

61-15284

1. Particle trajectories--
Mathematical analysis
1. Pomeranchuk, I.

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Distribution of the Electron Density in the
Lattice of Metallic Copper, by V. K. Kritskaya,
B. M. Rovinskaya,
RUSSIAN, per, Zh. Eksp. i Teor. Fiz, Vol 13,
No 9, 1948, pp 785-789.
NLL 5828.4F (11722)

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Obtaining Temperatures Below 1° K. by Pumping
Vapor Over Liquid Helium, by B. N. Esel'son, 5 pp.

RUSSIAN, per, Zhur Ekspir i Teoret Fiz, Vol XVIII,
No 9, 1948, pp 795-798.

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Scientific - Physics

Jan 55 CIB/DEX

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Mechanism of Electrification of Solids and
Liquids by Atomization, by L. Frenkel, .

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol
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CSIRO-2960

Sci

July 53

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Oscillographs of Curves of the Destruction of
Superconductivity By Audio Frequency Currents,
by A. A. Galkin, B. G. Lazarev, 5 pp.

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No 9, 1948, pp 833-836.

MDF G-177

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Oct 60

OT 562 - 10190
129,445

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M. A. Isakovich.

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Sci - Phys

Apr 62

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Metal-Ammonia Solutions, by A. I. Davydov, 11 pp.

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by I. M. Littahits and L. N. Rosenzweig, 19
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SLA R-2356

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"Theory of Extinguishing of Luminescence of Organic Phosphors"

B. Ya. Sveshnikov

Navy Tr 198/NRL 290
October Navy list

19/49T102

The Absorption and Luminescence Spectra
of Uranyl Salts at the Temperature of Liquid
Helium, by B. N. Samoilov.

RUSSIAN, per, Zhur Eksper i Teoret Fiz,
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NLL M.4521

Sci. -- Phys

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Full translation.

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Scientific - Physics, chemistry, stresses iron-nickel alloys

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Motion of ions in plasma, by Pok, V. A., 8 pp.

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November, 1968, p 1049-55.

SIA R-3455
AEC-tr-3139

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On the Microscopic Description of the Phenomenon
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Sci Museum No 51/2743

Scientific - Physics

NLL 11.2629

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1145-46
"Superconductivity at a Frequency of $1.8 \cdot 10^{10}$ Cycles per
Second"

A. A. Galkin
B. G. Lazarev

NRL Franc
F2 2293-50
(USSR) MS 7-1

25/49T105

A Note on the Scattering of Particles With Zero
Energy, by I. Ya. Pomeranchuk, 3 pp

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1147, 1948.

Sci Museum No 51/2746

Scientific - Physics

The Motion of Gas Bubbles in a Liquid of High Reynolds
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pp. 25-35.

*PL 430

QTS 61-11437

Dec 61

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pp 36-41
"Polarization and the Piezoeffect of Barium Titanate Near
the Point of Seigneto-Electric Transition"

V. L. Ginsburg

NRL No 253

also available at Brookhaven

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See Jr Cont, RT 482

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"Several Mathematical Methods Concerning the Theory of
Particle Dispersion"

I. Ye. Tamm.

NRL Trans No 246

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On a New Form of Dielectric Polarization and Losses in Polycrystalline Dielectrics

G. I. Skanavi
A. I. Demashina

Available in Brookhaven
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30/49T54

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"The Effect of Admixtures on the Thermodynamic
Properties and Speed of the Second Sound in Helium II"

I. Pomeranchuk

SLA 60-13716

AEC tr 111
NRL Trans F 2 2300-50

(USSR) MS 7-1

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"Study of the Structure of a Sphere Manufactured from a
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A. Meshkovskiy

or A. Meshkovski

NRL Trans. No. 240

30/49T93

Analysis of Decay Curves of Powdered Phosphorus,
by V. V. Antonov-Romnovskiy, E. S. Krylova, 21 pp.

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Scientific - Chemistry
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Investigation of Narrow Showers at an Altitude of
3250-m Above Sea Level, by A. Alikhanyan, A. Dedayan.

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ABC Tr 451

Scientific - Nuclear Physics

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pp 121-125

"Study of the Distribution of Free Volume in Fluids by
Means of Models"

I. Radchenko
F. Shestakovskiy

Translation
Wilson Dam #2809

700-X-75

SLATR R-2161

AF 32/49 T87

32/49T87

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135-145

"Study of the Excited States of the Color Center"

G. E. Zil'berman

Translation No 230 NRL

letter dated 7 Sep 1949

available in Brookhaven - See Guide to

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146-152

"The Relation of Time and Temperature to the
Photoconductivity of Alkali-Halide Crystals"

G. E. Zil'berman

NRL Translation 227

CIA, FDD - U Report 511/49

See page 101 Vol 2 No 8/9

32/49T80

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Vol XIX, No 2, 1 $\frac{1}{2}$ pp, 1949

PP 181/182

"The Effect of Molecular Interaction in a Lattice on
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A. S. Davydov

Translation
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PA 32/49T78

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SLR 2-2159

32/49T78

Infra Red Spectra of Uranyl Salts, by A. N.
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AEC NP-tr-1389

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Aug 66

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Wilson Dam #2825

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SUA TR R-2160

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Absorption and Velocity of Ultrasonic Waves in
Certain Very Viscous Liquids and Amorphous Solids,
by I. G. Mikhailov, S. B. Gurevich, 20 pp.

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Scientific - Physics
CTB/DEK

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Determination of the Phase of the Wave Function
in Particle Scattering, by G. F. Drukarev.

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MU/T 420

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On an Application of Perturbation Theory to the
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S. V. Tiablikov, 10 pp.

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SLA R-1489

May 58

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May 58

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NTIC - 1550

GB 60/1550

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Deformation of the Crystal Lattice of a Metal in the
Vicinity of the Surface, by A. Gluberman.

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AEC Tr 1474

Scientific - Physics, crystal lattice, metal

Jan 53 CTS/DEX

Full translation.

Prikhoko, A. F.
ELECTRONIC AND VIBRATIONAL LEVELS OF THE
CRYSTAL AND MOLECULE OF NAPHTHALENE.

(1960) 15p. 8 refs. TL968; M2076.

Order from LC or SLA ml\$2.40, ph\$3.30 61-13433

Trans. of [Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki] (USSR) 1949, v. 19, no. 5, p. 383ff.

A detailed comparison of the absorption spectra of the crystal and vapor of naphthalene shows that, in addition to those electronic series which have corresponding members in the vapor, there exist also electronic levels peculiar to the crystal. The spectral transitions to these latter levels from the normal one consist of sharp, polarized, line spectra. Transitions to what of sharp, polarized, line spectra. Transitions to the latter levels correspond to levels of the molecule in the gas do not correlate well with the polarized line spectra of the crystal. The first category of transitions have the symmetry of the crystal, while the second have the symmetry of the molecule. The normal (Chemistry--Physical, TT, v. 5, no. 2) (over)

61-13433

1. Naphthalene--Physical properties

I. Prikhoko, A. F.

II. Trans-TL-968

III. DSIR LLU M.2076

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Thermal Stability of Complex Molecules, by A. V. Obreymov.

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Jun 57

Comments on the "Superfina" Structure of X-Ray
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16 pp.

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SIA 59-10868

Sci - Phys
Sep 59
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Displacement of Diffraction Maxima Due to a Change
in the Size and the Form of Very Small Crystals,
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CIA/PDD/X-1305

Scientific - Physics
CTS/DFX

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*PL 480
OTB 61-11437

Dec 61

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Interatomic Distances, by F. M. Gal'perin.

Full translation.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, USSR, Vol XIX,
No 5, 451-459, 1949.

AEC Tr 1473

Scientific - Physics, metals, atomic, iron, interatomic

Jan 53 CTB/DEX

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Investigations of the magnetic properties of chromium
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AEC/BNL/ Tr 117

671. 1170583

The Piezo Effect of Barium Titanate, by A. V.
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AEC Tr 1093

Sci - Physics

Dec 51 GTS

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2537 Å at Low Optical Densities of the Absorbing
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AEC Tr 558

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Scientific - Physics

AUG 1951 CTS

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SLA 60-13739

Proj 80.03 - Ar 22 Aug 1949

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Scientific - Physics

W. P. Bushman *National Lab*

Configuration Interaction in the Carbon Atom, by
A. P. Yutsis, 26 pp.

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pp 565-576. 9211931

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Sol - Inc Sol & Tech
Sep 63

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"Thermal Conductivity of Carbon Dioxide and Relationships between Thermal Conductivity and Viscosity"

E. Borovik (Phys-Tech Inst, Acad Sci Ukr SSR.)

(Wilson Dam 2865)

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Yuzis, A. P.
CONFIGURATION INTERACTION IN THE CARBON ATOM (Yuzisovskiy Konfiguratsii v Atome Ugleroda). July 68, 26p. 9 refs. NASA Technical Trans. F-154; N63-19861.
 Order from OTS \$0.75

63-11690

Trans. of Journal Eksperimental'noi i Teoreticheskoi Fiziki (USSR) 1968, v. 19 [no. 7] p. 565-576.

DESCRIPTORS: *Carbon, Atomic structure, Atomic orbitals, *Atomic energy levels, Electrons, *Field theory, Special functions, Quantum statistics, Matrix calculus.

The interaction of the $1s^2 2s^2 2p^2$, $1s^2 2p^4$, $1s^2 2s^2 2p^3$, and $1s^2 2s 2p^2 3s$ configurations of the carbon atom is theoretically investigated. Over-all wave functions are derived for these configurations. The energy (Physics--Theoretical, TT, v. 10, no. 9) (over)

63-11690

- I. Yuzis, A. P.
- II. NASA TT F-154
- III. NASA N63-19861
- IV. National Aeronautics and Space Administration, Washington, D. C.
- V. Faraday Translations, New York

NLL 773.75
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Excited by X-Rays, by A. Parfianovich, 17 pp.

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Vernov, S. N.
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Avail at BNL AEC-475

19 June 5,

51/47546

The Theory of the Viscosity of Helium II. Part I.
Collision of Elementary Excitations in Helium II,
by L. D. Landau, and I. M. Khalatnikov.

Full translation.

RUSSIAN, per, Zhur Eksp. i Teoret Fiz, Vol XIX,
No 7, USSR, 1949, pp 637-650.

AEC Tr 1256

Scientific - Physics

A Physical Method of Segregating Nuclear Isomers,
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Proj 8023

CD 1044

A S 25 Aug 1949

Observation of Varitrons of Different Mass in Photographic Plates, by A. I. Alikhanyan, D. M. Samoilovich I. I. Garovich, Kh. P. Babayan, R. I. Gerasimova.

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Scientific - Nuclear Physics

June 1951 CTS

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Decay of Heavy Varitrons (Mesons), by A. I. Alikhanyan

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ABC Tr 452

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June 1951 CTS

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"Temperature Dependence of the Radiation Spectra of
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K. V. Shalimova

AEC Tr 308

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61/49T103

Interaction between an electron and positron, by
V. B. Berastetskii, and L. D. Landau.

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pp 673-9, 1949.

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the Excitation Light in Pure Zinc Sulfides, by
P. S. Litvinova, 8 pp.

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Magneto-Optical Phenomena in Ferromagnetics, by
X. S. V. Vonsorakiy, A. V. Sokolov, 13 p.

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pp 703-708.

SLA 59-17155

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Jan 60
Vol 2, No 6

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On Disintegration of Varitrons, by
A. V. Vaynsberg, 6 pp.

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SLA 60-19936

Sci
Vol IV, No 8
2 Jun 62

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On the Problem of Secondary Electron Emission as a
Result of the Action of Negative Ions, by V. M.
Dukel'skiy, E. K. Zandberg, 13 pp.

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No 8, 1949, pp 731-738.

SLA R-1112

Sci. - ~~ENGINEERING~~ Nuclear Physics
Jan 58

58, 197

Generation of Protons and Varitrons by the Neutral
Component of Cosmic Radiation, by A. I. Alikhanyan,
M. I. Dayon, V. M. Kharitonov.

RUSSIAN, no per, Zhur Ekaper i Teoret Fiz, Vol XIX,
No 6, 1949, pp 739-748.

AEC Tr 478

Scientific - Nuclear Physics

July 1951 CT8

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Rumer, 5 pp.

RUSSIAN, per, Zhur Mopex 1 Teoret Fiz, Vol XIX
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AEC SCL-T-201.

Sci - Phys

Doc 58

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Ca-1

DZHELEPOV B. S., KUDRYAVTSEVA A. V.

Tables of beta-disintegrations. I. Products tau-F

Zhur. Eksptl. i Teoret. Fiz., 19, No. 9, 761-783 (1949)

TT 161 - English

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Berestetski, V. B.
THE SPECTRUM OF POSITRONIUM tr. by J. Turkevich
10p. 3 refs. MTWL: 1039
Order from OTS or ETC \$1.55

61-17466

Trans. of Zhurnal Eksperimental'noi i Teoreticheskoi
Fiziki (USSR) 1949, v. 19, no. 8, p. 1130-1135.

DESCRIPTORS: Positronium, *Electrons, *Positrons.

61-17466

- I. Berestetski, V. B.
- II. MTWL-1039
- III. Stichting Moeilijk
Toegankelijke Wetenschap-
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